

Fig. 2

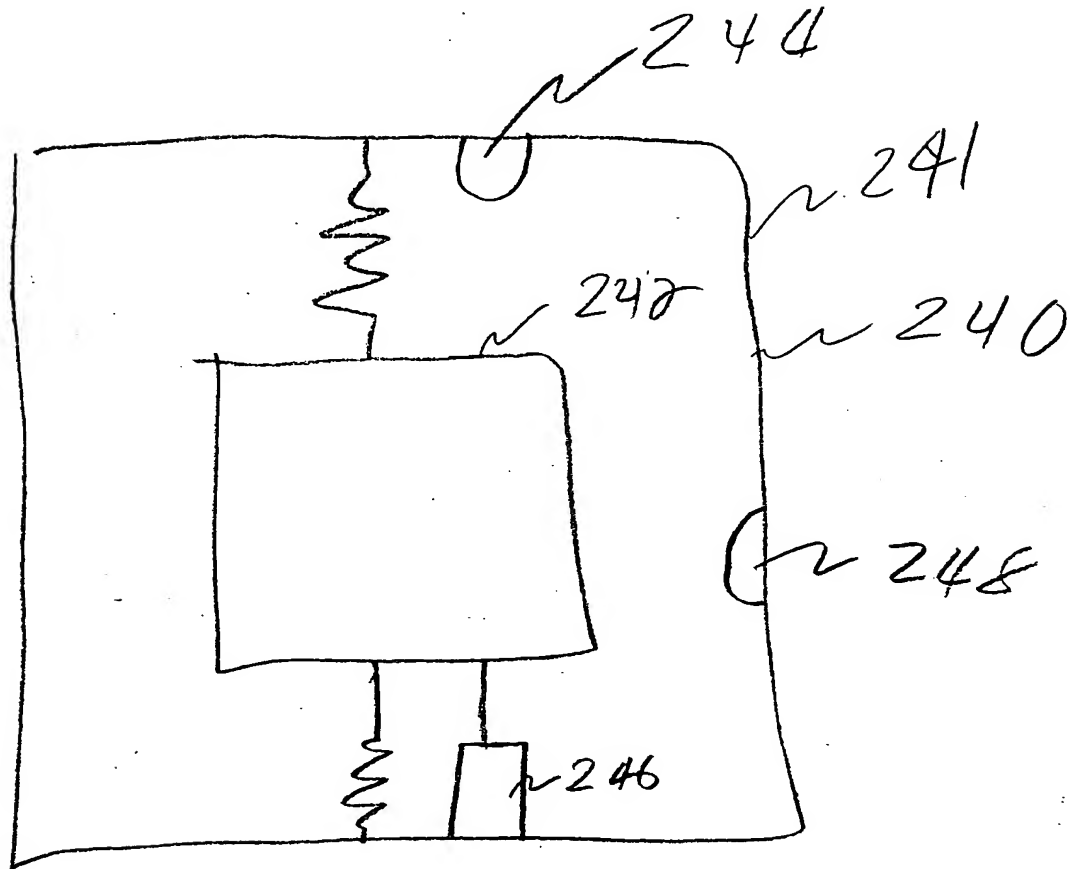


Fig. 3

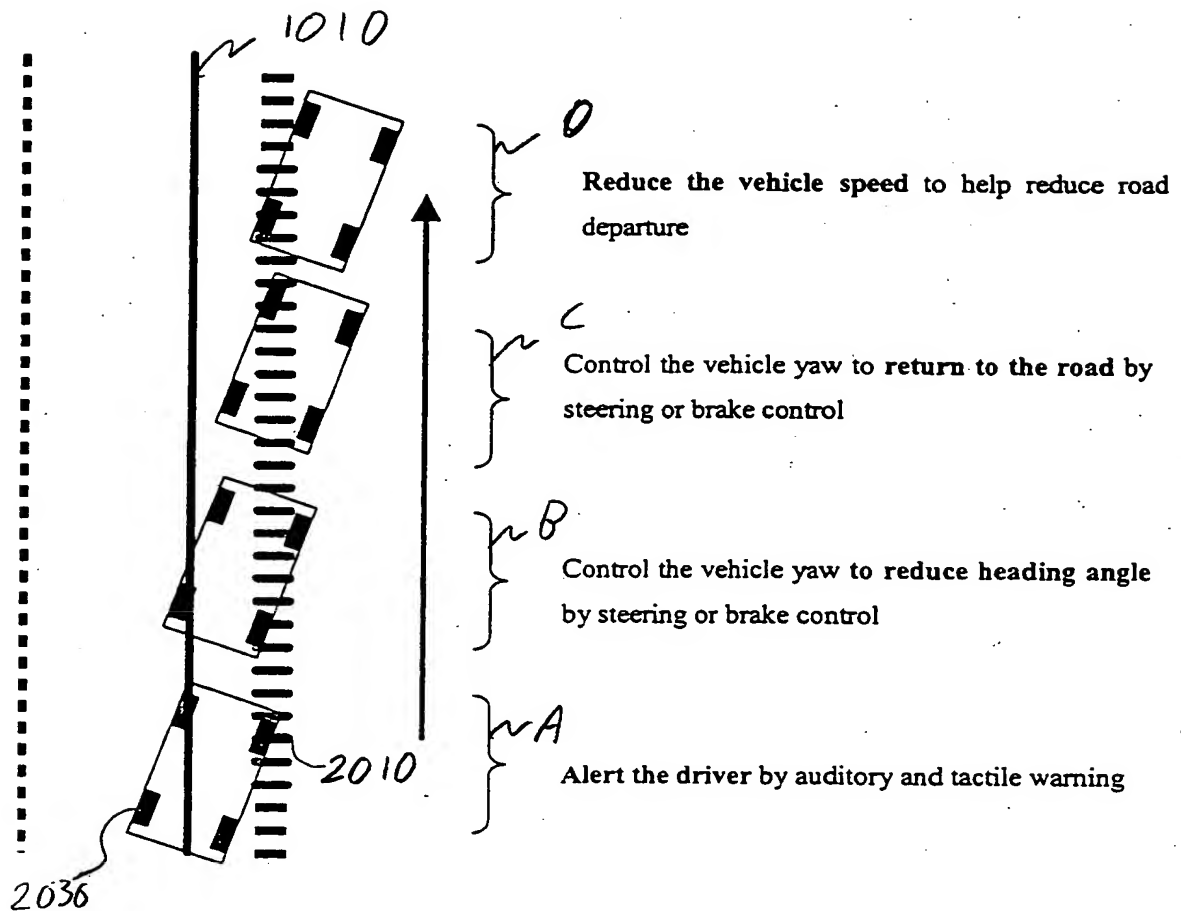
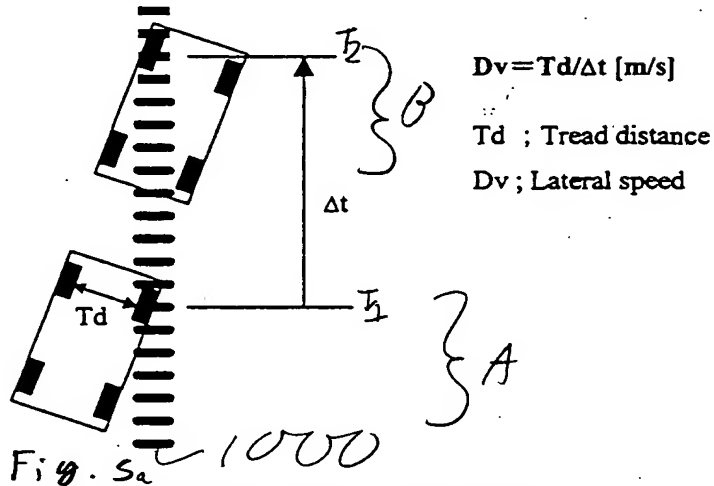
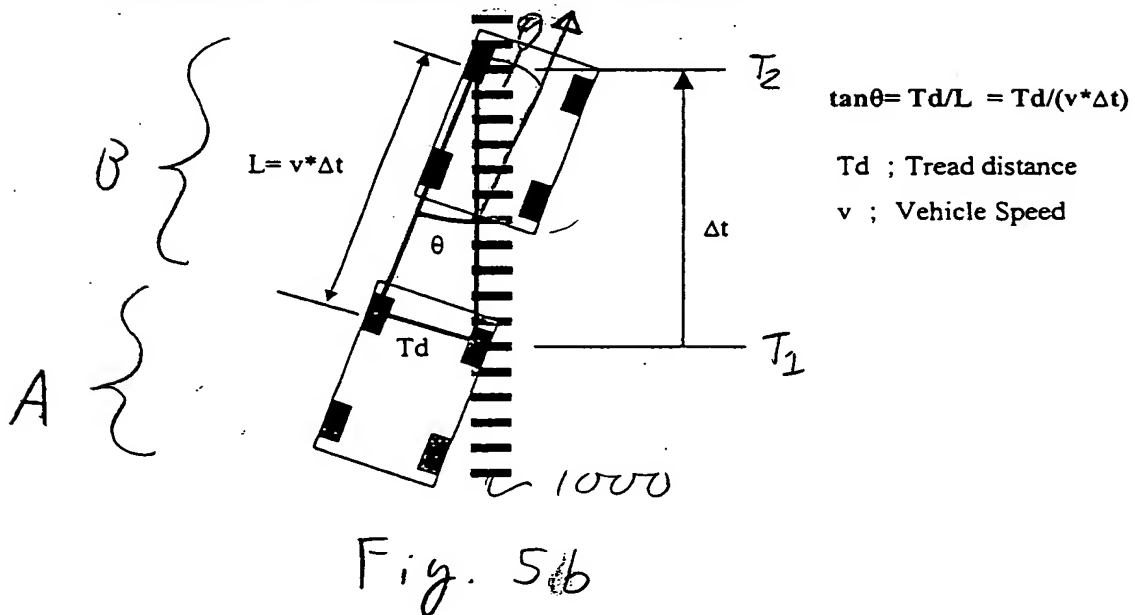


Fig. 4

Calculation of the Lateral speed at Deviation



Calculation of the heading angle at deviation



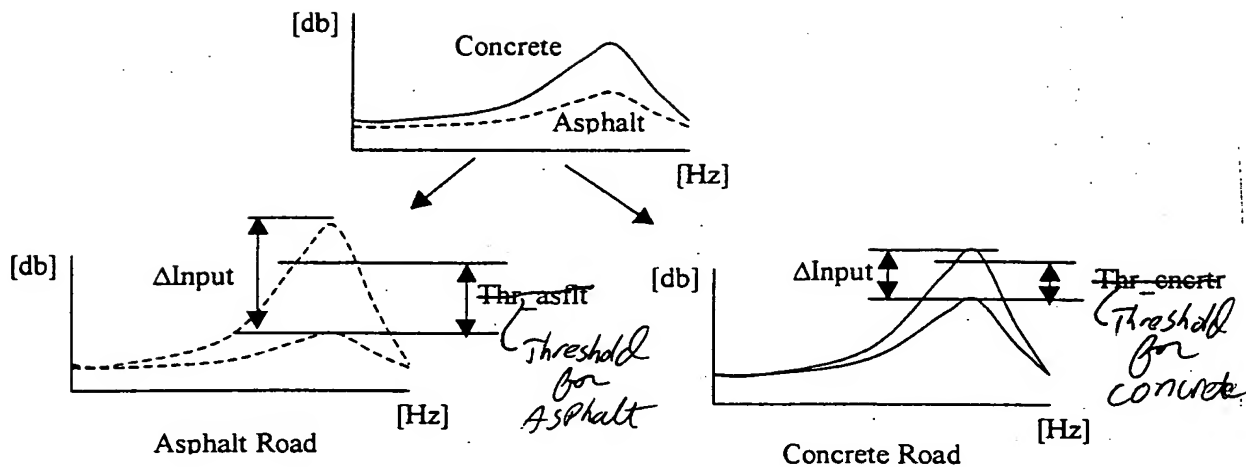


Fig. 6

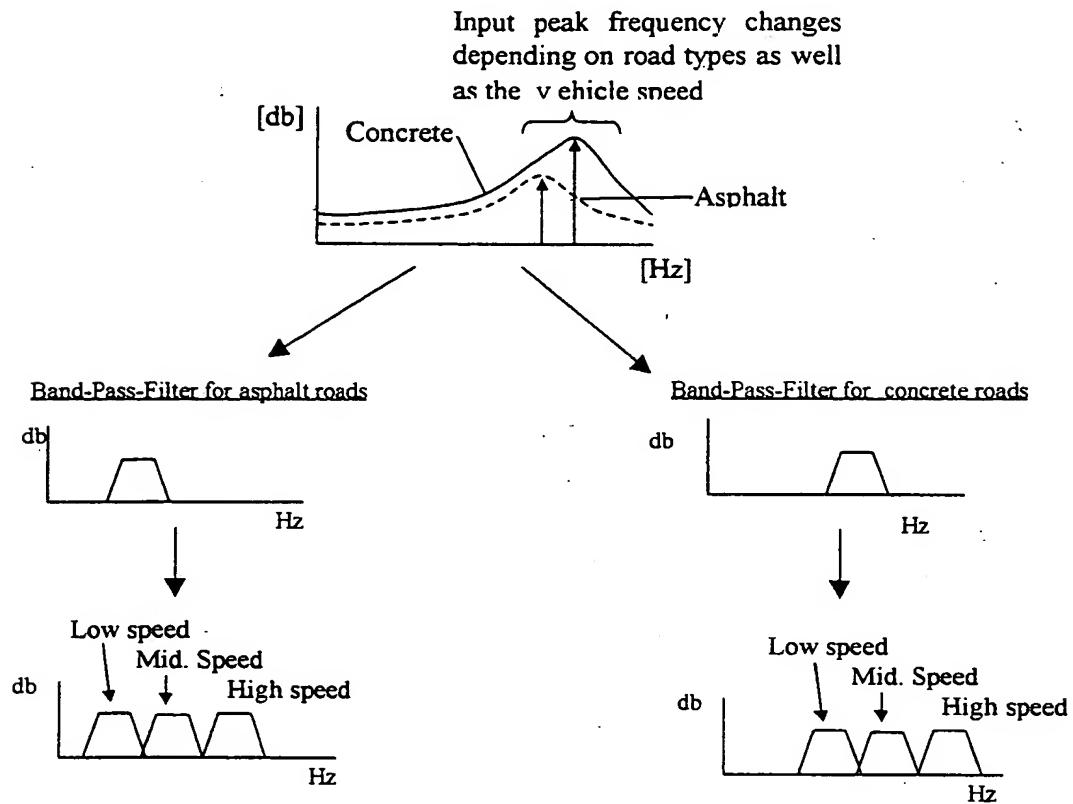


Fig. 7

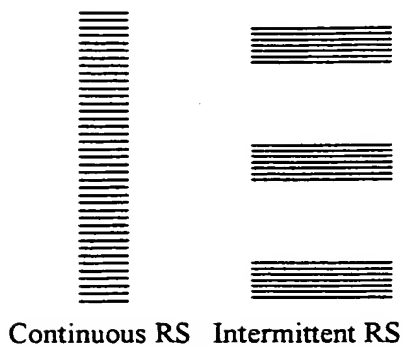


Fig. 8

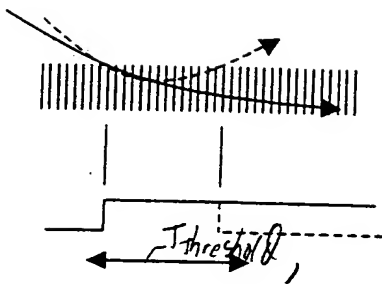


Fig. 9

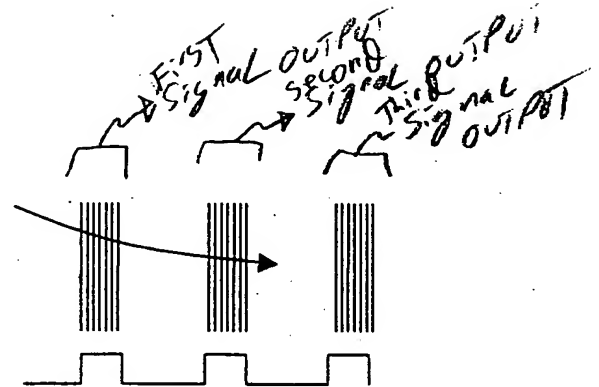


Fig. 10

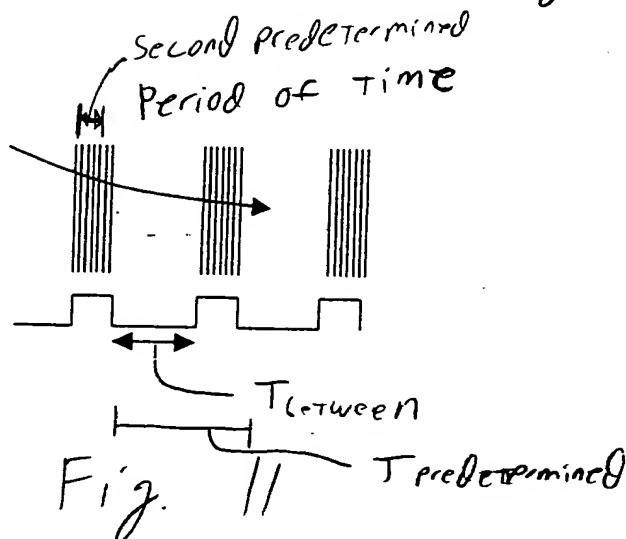


Fig. 11

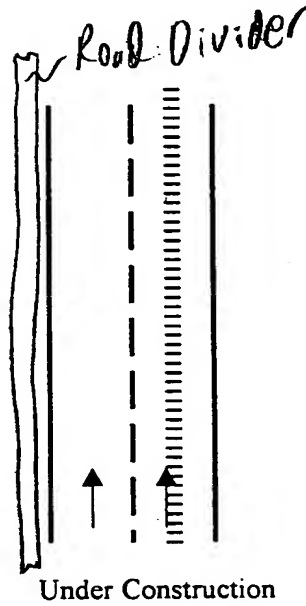


Fig. 12

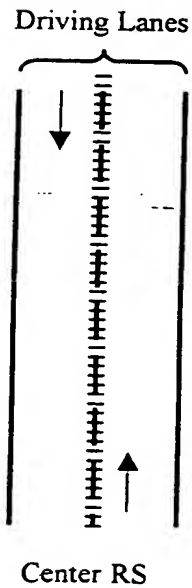


Fig. 13

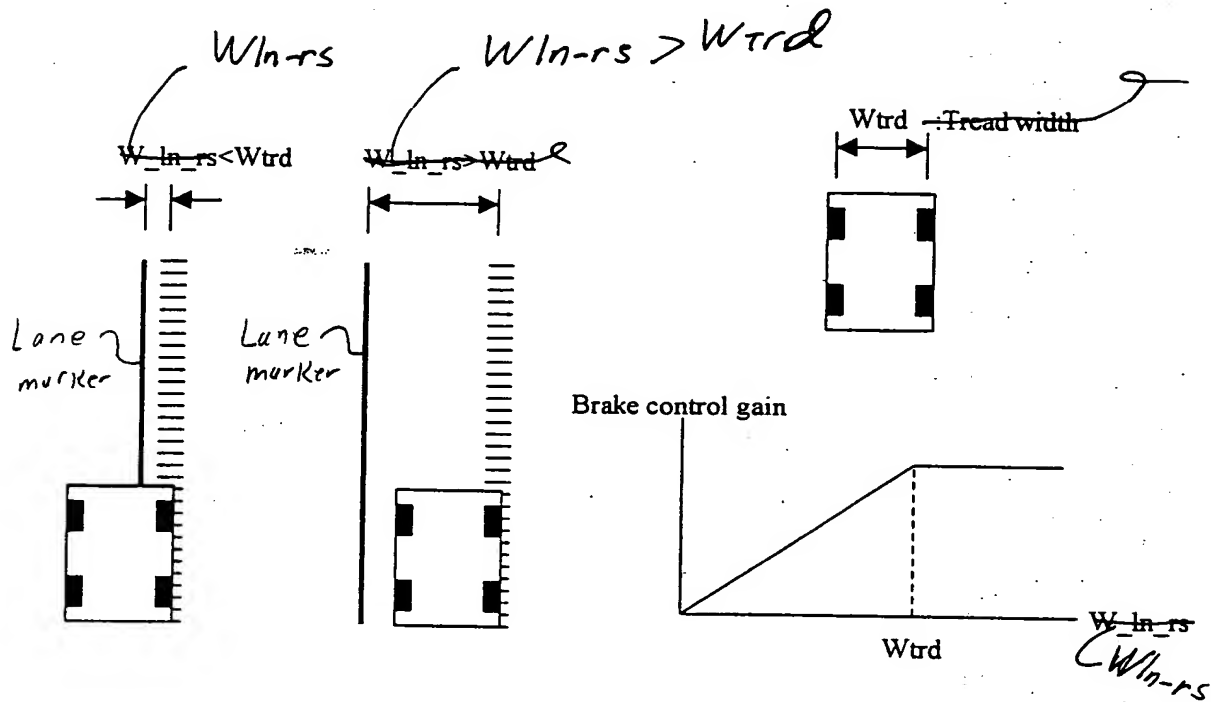


Fig. 14

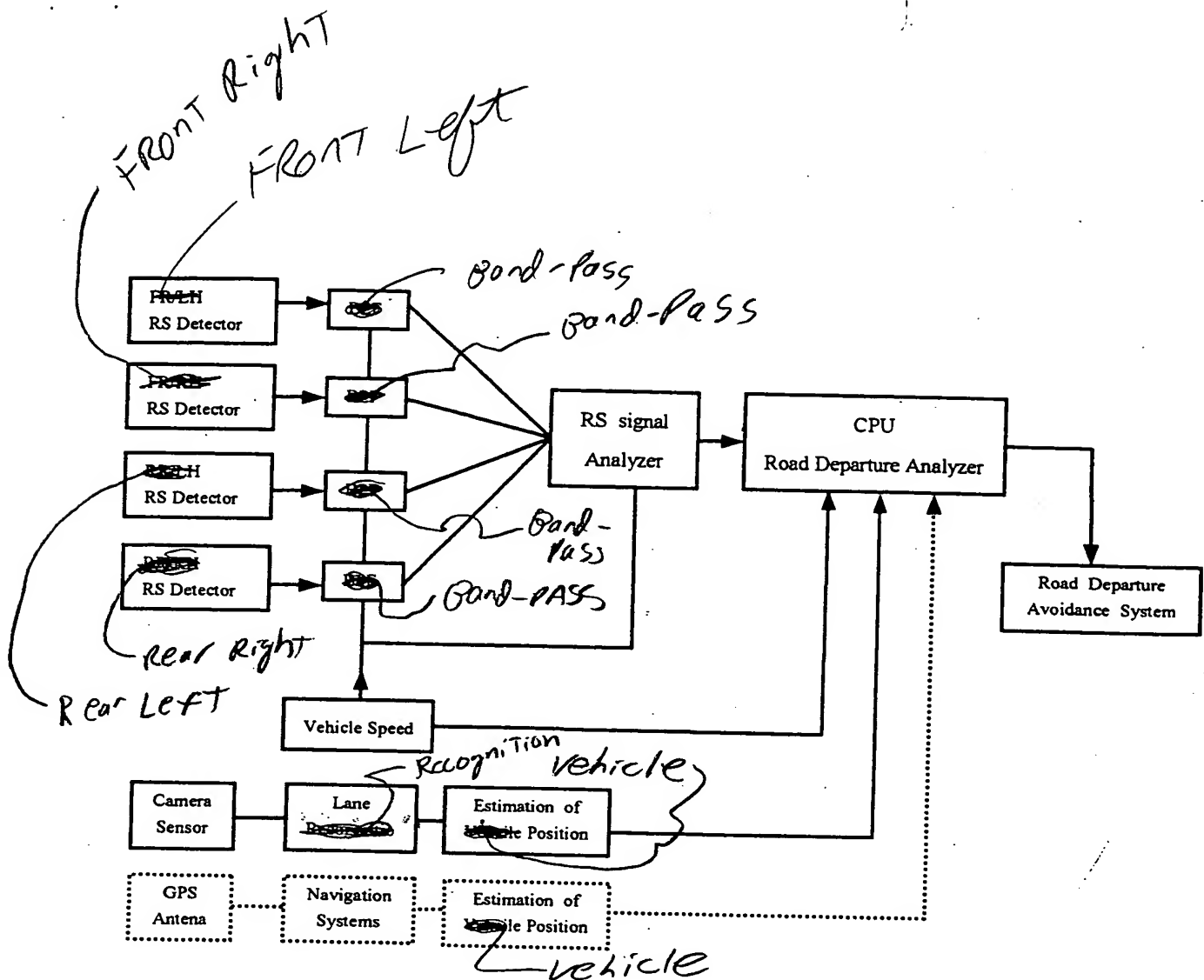


Fig. 15

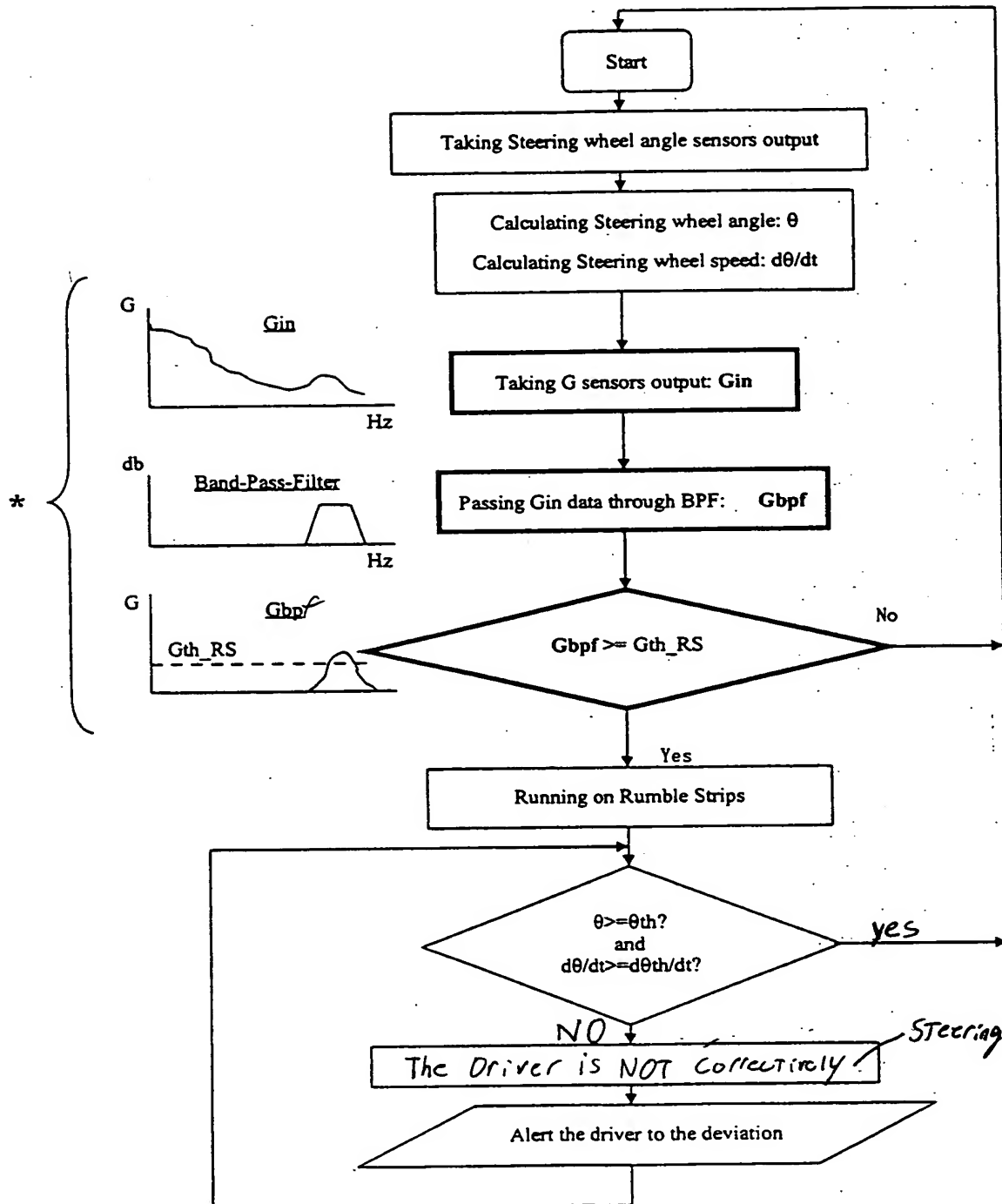


Fig. 16

Exemplary
Cut-off frequencies of Band-Pass Filter in ~~response~~ *response* to vehicle speed

The pattern of rumble strips: cycle distance : 30.48cm (1foot)

140~ km/h 128 Hz BPF#1

120~140km/h 109 Hz BPF#2

100~120km/h 91 Hz BPF#3

80~100km/h 72 Hz BPF#4

60~80km/h 55 Hz BPF#5

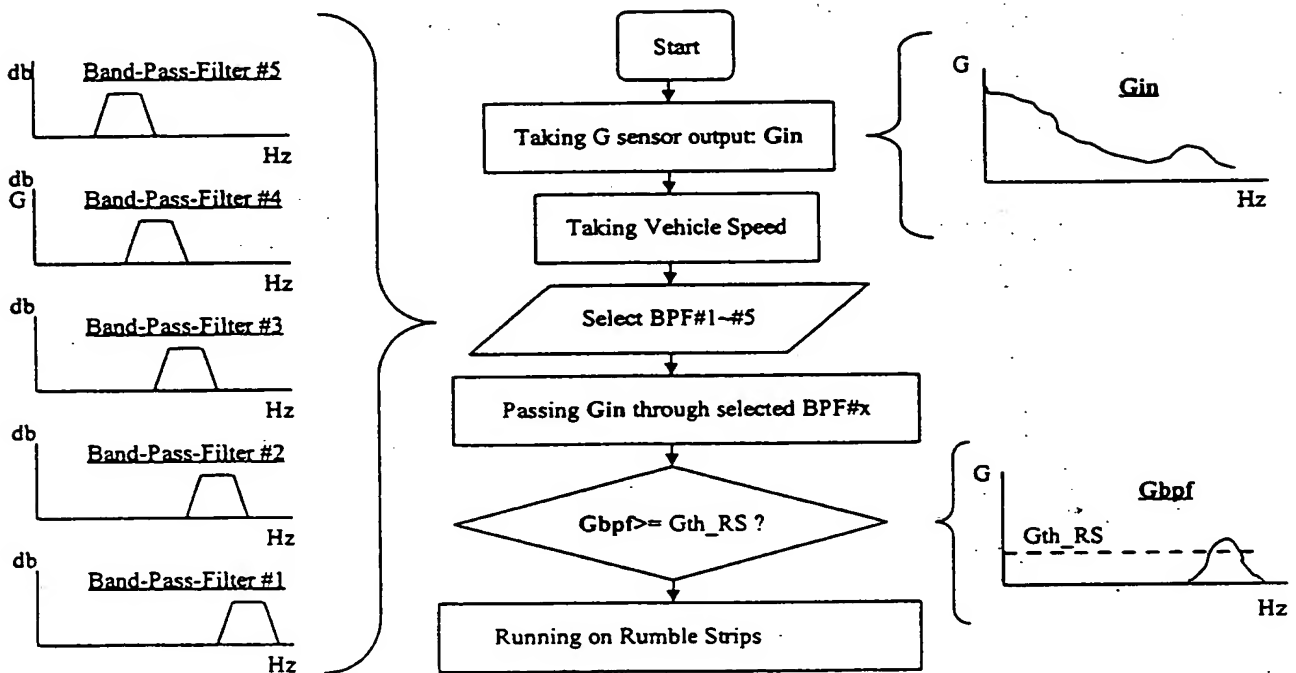


Fig. 17

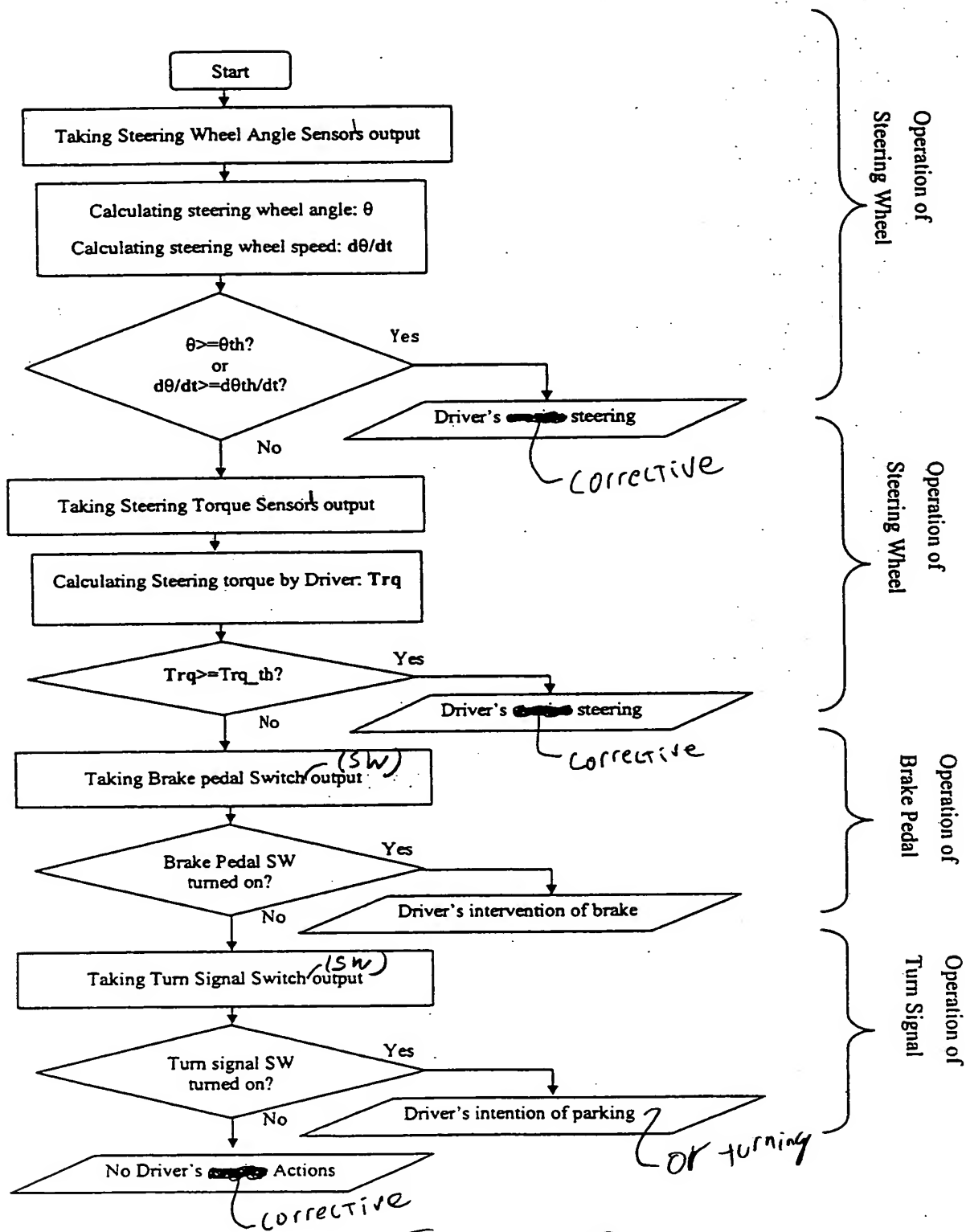


Fig. 18

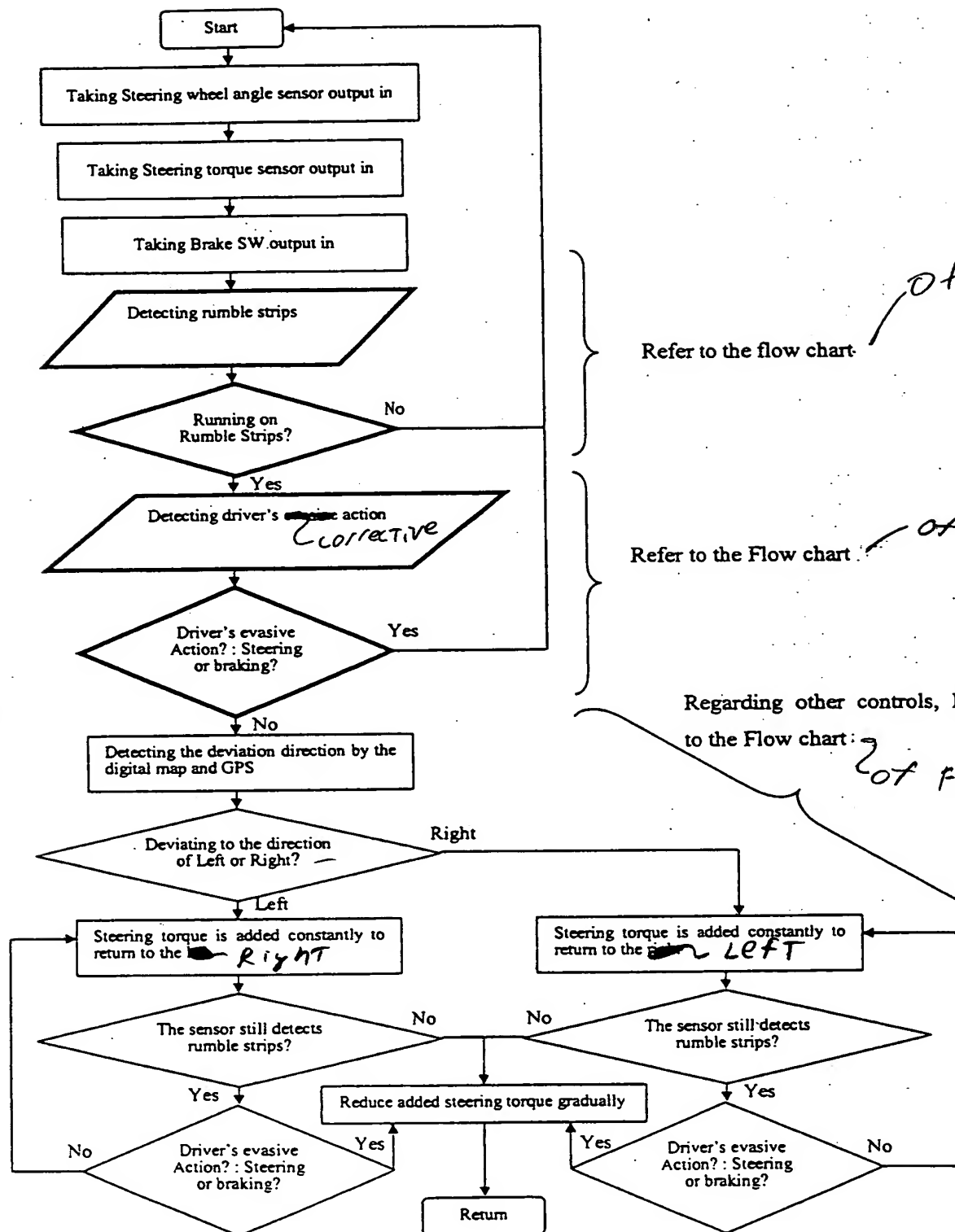


Fig. 19

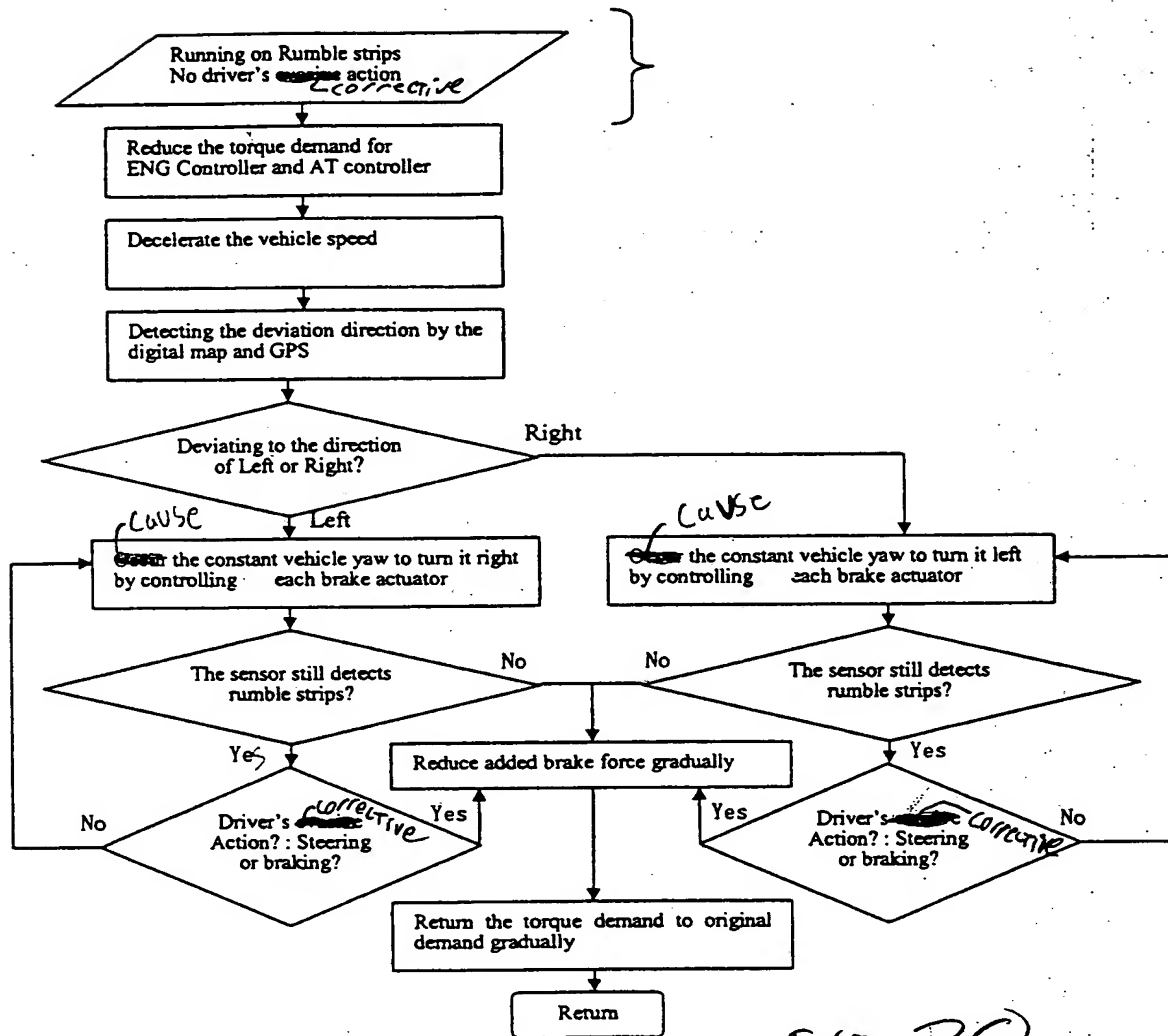


Fig. 20

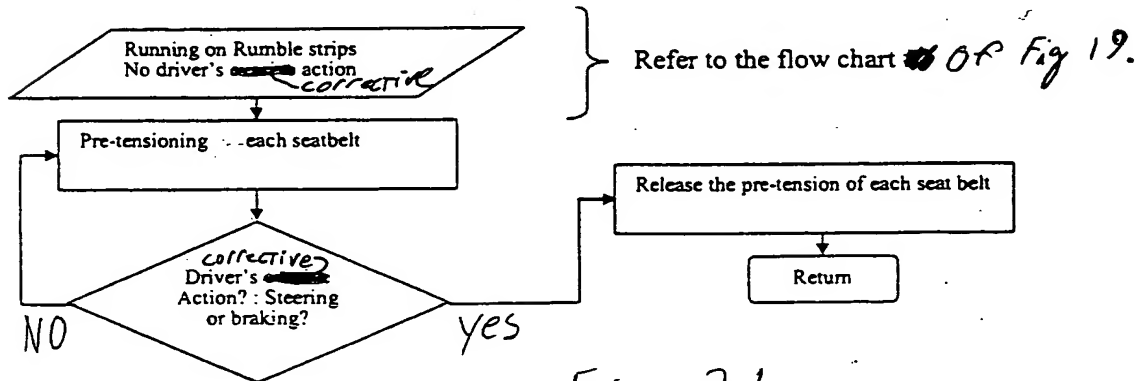


Fig. 21

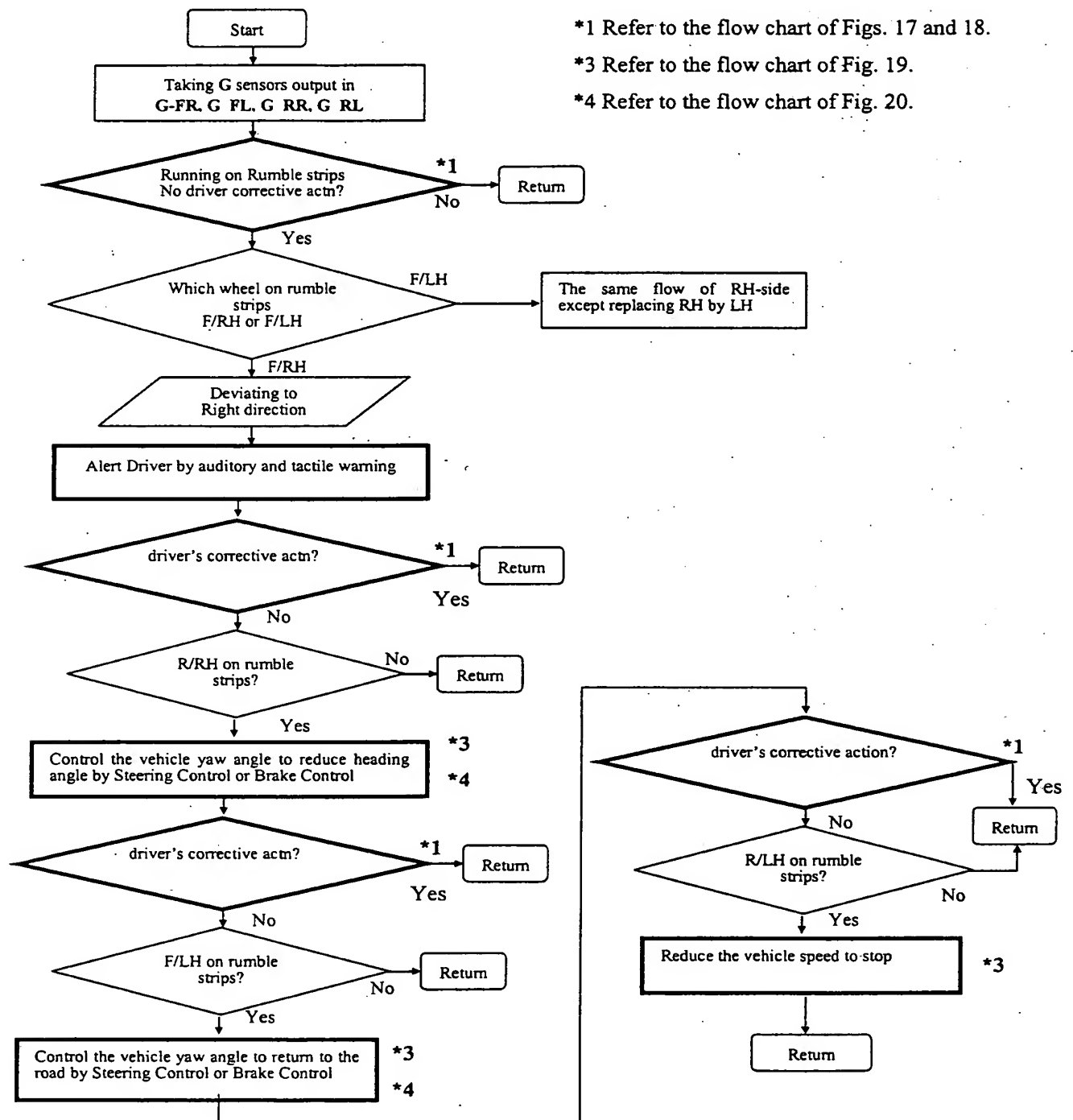


Fig. 22

Title: RUMBLE STRIPS RESPONSIVE SYSTEMS

Inventor(s): Hiroshi KAWAZOE et al.
DOCKET NO.: 032915-0139

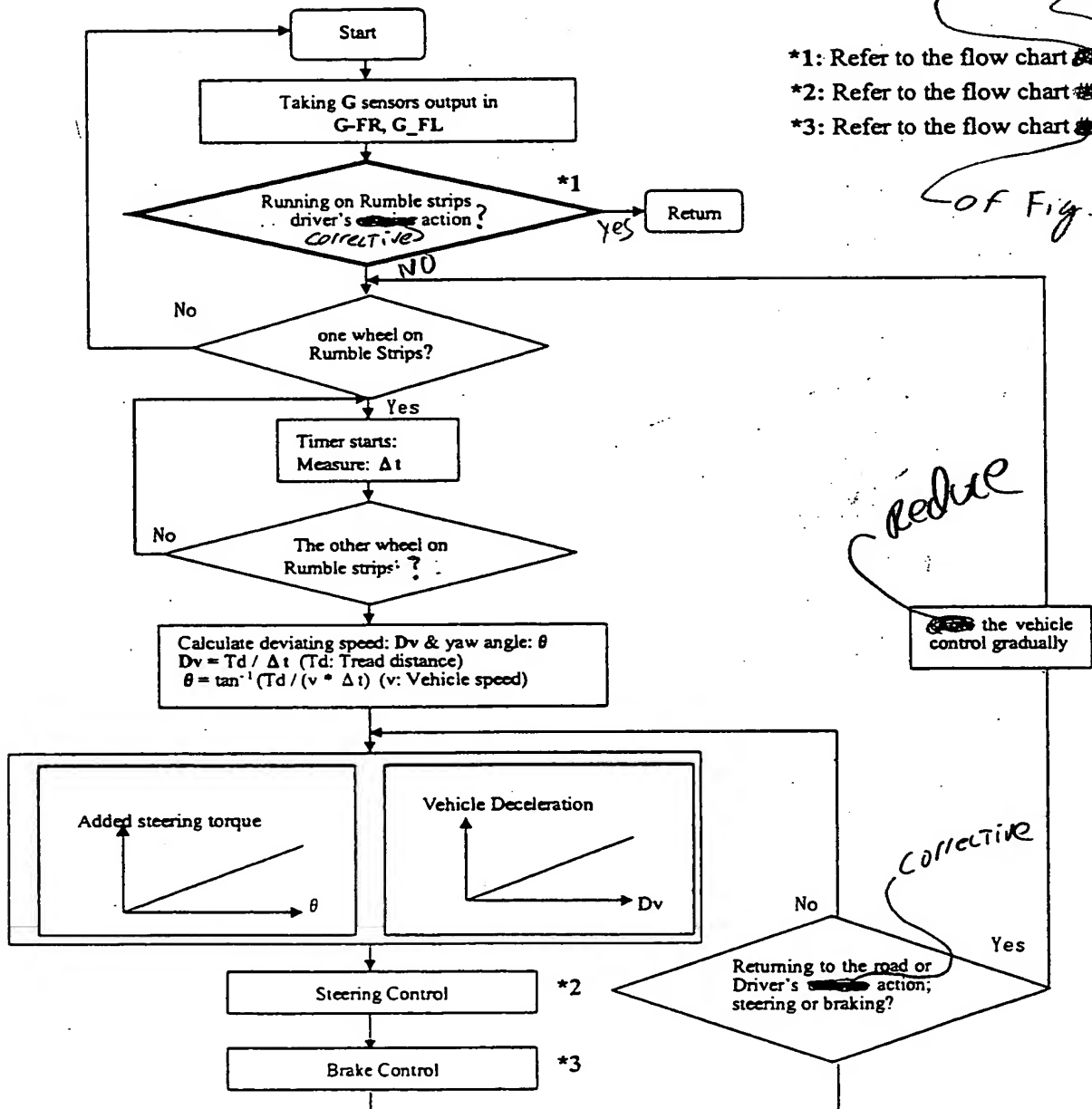


Fig. 23

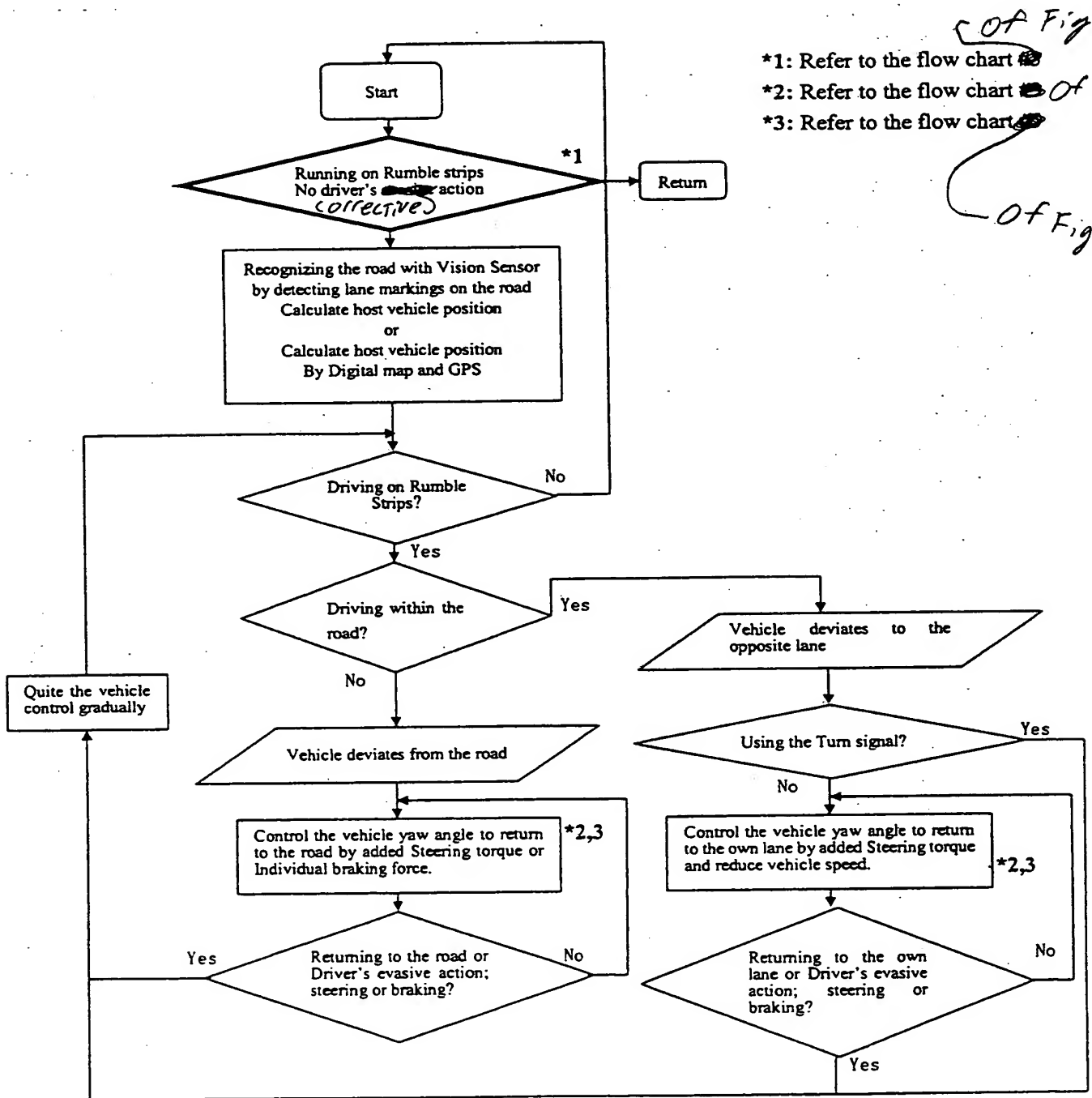
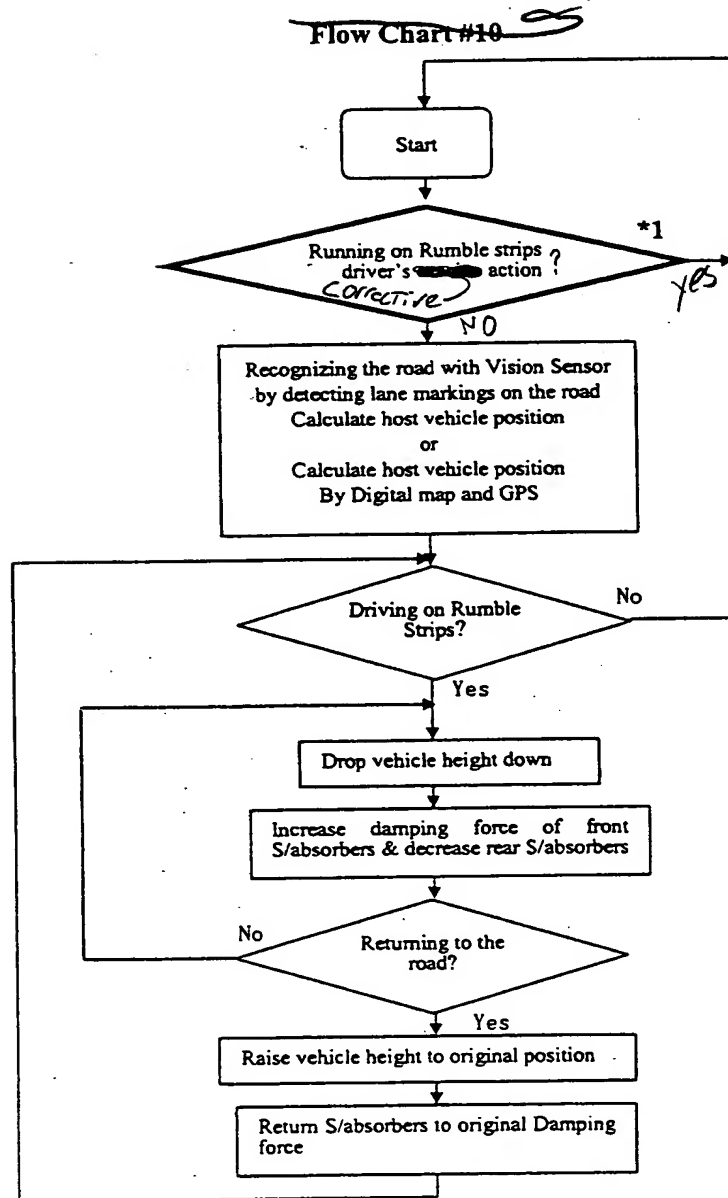


Fig. 24



*1: Refer to the flow chart
of Fig. 18

Fig. 25